PTO/SB/01 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

A03092US (15630.141)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. **Attorney Docket Number**

		IIUK -	· · · · · · · · · · · · · · · · · · ·		(13030.141)		
DECLARATION FOR UTILITY OR DESIGN			First Named Inventor	Bhaber	abendra Pradhan		
PATENT APP	N	COMPLETE IF KNOWN					
(37 CFR	1.63)		Application Number				
Declaration	Declarat	tion	Filing Date				
Submitted OR L With Initial		ed after Initial urcharge	Art Unit				
Filing	(37 CFR 1.16 (e)) required)		Examiner Name				
I hereby declare that: Each inventor's residence, mailin	ng address, a	nd citizenship are a	as stated below next t	their name.			
I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:							
"Improved Catalyst and Process to Produce Nanocarbon Materials in High Yield and at High Selectivity at Reduced Reaction Temperatures"							
Ab an afficient of thick		(Title of the	Invention)				
the specification of which							
is attached hereto							
OR			-				
was filed on (MM/DD/YYY	Υ)		as United States	Application N	umber or PCT International		
as sinted states / ppication in a linear state i							
	7		-		····		
Application Number		and was amended	d on (MM/DD/YYYY)		(if applicable).		
		stand the contents	·	specification			
Application Number I hereby state that I have reviewe	ecifically referose informat material info	stand the contents rred to above. ion which is mater ormation which bec	of the above identified rial to patentability as ame available betwe	defined in	n, including the claims, as 37 CFR 1.56, including for		
Application Number I hereby state that I have reviewe amended by any amendment special acknowledge the duty to disclete continuation-in-part applications, and the national or PCT internation inventor's or plant breeder's right country other than the United States.	ecifically refer ose informat material info onal filing dat enefits under ts certificate(ates of Ameri	stand the contents rred to above. cion which is mater ormation which because of the continuation of the contents of the conte	of the above identified rial to patentability as ame available betwe on-in-part application. -(d) or (f), or 365(b) y PCT international ad have also identified	defined in en the filing of of any foreig pplication wh below, by ch	an, including the claims, as 37 CFR 1.56, including for date of the prior application an application(s) for patent, inch designated at least one patenting the box, any foreign		
Application Number I hereby state that I have reviewe amended by any amendment special acknowledge the duty to disclered continuation-in-part applications, and the national or PCT international in hereby claim foreign priority be inventor's or plant breeder's right	ecifically references ose informat material info onal filing dat enefits under ts certificate(ates of Ameri or plant bree	stand the contents rred to above. cion which is mater ormation which becte of the continuation and the continuation of the contents of th	of the above identified rial to patentability as ame available betwe on-in-part application. -(d) or (f), or 365(b) y PCT international ad have also identified	defined in en the filing of of any foreig pplication wh below, by ch	an, including the claims, as 37 CFR 1.56, including for date of the prior application an application(s) for patent, inch designated at least one patenting the box, any foreign		
Application Number I hereby state that I have reviewed amended by any amendment special acknowledge the duty to disclete continuation-in-part applications, and the national or PCT international international or PCT international international or PCT international int	ecifically referonse informat material info onal filing data enefits under ts certificate (ates of Amerior plant breewhich priority	stand the contents rred to above. cion which is mater ormation which becte of the continuation and the continuation of the co	of the above identified rial to patentability as ame available between-in-part application. -(d) or (f), or 365(b) y PCT international and have also identified ate(s), or any PCT international and the principal ate(s).	of any foreign of any foreign of any foreign of below, by charactional appropriety	n, including the claims, as 37 CFR 1.56, including for date of the prior application an application(s) for patent, ich designated at least one lecking the box, any foreign plication having a filing date Certified Copy Attached?		
Application Number I hereby state that I have reviewe amended by any amendment special acknowledge the duty to disclered continuation-in-part applications, and the national or PCT international interest of the property of the property of the than the United State application for patent, inventor's or before that of the application on well-application on the property of the prope	ecifically references ose informat material info onal filing dat enefits under ts certificate(ates of Ameri or plant bree	stand the contents rred to above. cion which is mater ormation which becte of the continuation and the continuation of the co	of the above identified rial to patentability as ame available between-in-part application. -(d) or (f), or 365(b) y PCT international and have also identified ate(s), or any PCT international and the principal ate(s).	defined in en the filing of of any foreig pplication wh below, by ch ernational ap	n, including the claims, as 37 CFR 1.56, including for date of the prior application gn application(s) for patent, ich designated at least one secking the box, any foreign plication having a filing date		
Application Number I hereby state that I have reviewed amended by any amendment special acknowledge the duty to disclete continuation-in-part applications, and the national or PCT internation. I hereby claim foreign priority be inventor's or plant breeder's right country other than the United State application for patent, inventor's or before that of the application on we prior Foreign Application.	ecifically referonse informat material info onal filing data enefits under ts certificate (ates of Amerior plant breewhich priority	stand the contents rred to above. cion which is mater ormation which becte of the continuation and the continuation of the co	of the above identified rial to patentability as ame available between-in-part application. -(d) or (f), or 365(b) y PCT international and have also identified ate(s), or any PCT international and the principal ate(s).	of any foreign of any foreign of any foreign of below, by charactional appropriety	n, including the claims, as 37 CFR 1.56, including for date of the prior application an application(s) for patent, ich designated at least one lecking the box, any foreign plication having a filing date Certified Copy Attached?		
Application Number I hereby state that I have reviewed amended by any amendment special acknowledge the duty to disclete continuation-in-part applications, and the national or PCT international interest of the national or PCT international interest or plant breeder's right country other than the United State application for patent, inventor's or before that of the application on the prior Foreign Application	ecifically referonse informat material info onal filing data enefits under ts certificate (ates of Amerior plant breewhich priority	stand the contents rred to above. cion which is mater ormation which becte of the continuation and the continuation of the co	of the above identified rial to patentability as ame available between-in-part application. -(d) or (f), or 365(b) y PCT international and have also identified ate(s), or any PCT international and the principal ate(s).	of any foreign of any foreign of any foreign of below, by charactional appropriety	n, including the claims, as 37 CFR 1.56, including for date of the prior application an application(s) for patent, ich designated at least one lecking the box, any foreign plication having a filing date Certified Copy Attached?		

[Page 1 of 2]

This collection of information is required by 37 CFR 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DECLARATION — Utility or D sign Patent Application

Direct all correspondence to: Customer Number or Bar Code Label						OR		Corresp	pondence address below
Name				- 					
Gregory C. Smith, Garvey, S	mith, Nehrbas	ss & Doody	, L.L.C.						
Address 3838 N. Causeway Blvd., Su	iite 3290								
City				State					ZIP
Metairie				LA					70002
Country		Telephone)			Fax			
us		(504) 835	-2000			(504	1) 835-	2070	
I hereby declare that all statem and belief are believed to be statements and the like so mad false statements may jeopardiz	e true; and fur de are punishat	ther that the	ese stat or impriso	ements onment	were or bo	made th, und	with der 18 l	the kno	wledge that willful false
NAME OF SOLE OR FIRST IN	VENTOR:			etition I	has he	en filer	d for thi	e unsian	ned inventor
Given Name (first and middle [if any]) Bhabendra			euuon i	ition has been filed for this unsigned inventor Family Name or Surname Pradhan			isa inventor		
Inventor's Signature Rhabeeh	a k. 1	In whe	۰		•				Date 07/23/03
Residence: City	State			Coun	try	*********		Citizer	nship
Marietta	GA			US				Indian	
Mailing Address 360 Bloombridge Way N.W.									
City	State				ZIP				Country
Marietta	GA				30066	3			US
NAME OF SECOND INVENTO	R:				·A pe	tition h	nas bee	n filed fo	or this unsigned inventor
Given Name (first and middle [if any])				Family Name or Surname					
Inventor's Signature							_		Date
Residence: City	State			Coun	try			Citizen	ıship
Mailing Address						-			
City	State				ZIP			Countr	гу
Additional inventors or a legal rep	presentative are bei	ing named on th	ne s	uppleme	ntal shee	et(s) PTC	D/SB/02A	or 02LR a	attached hereto.

PTO/SB/81 (05-03)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| Application Number | | **Application Number**

	Filing Date	
POWER OF ATTORNEY OR AUTHORIZATION OF AGENT	First Named Inventor	Bhabendra Pradhan
	Title	"Improved Catalyst and Process to
	Art Unit	
	Examiner Name	
	Attorney Docket Number	A03092US (15630.141)

I hereby appoint:					
Practitioners at Customer I	Number 22920			Place Customer Number Bar Code Label here	
OR	L				
Practitioner(s) named belo	w:		L		
	Name	Registration Number			
Gregory C. Smith		29,441			
		•	·		
as my/our attorney(s) or agent(s) Trademark Office connected then	to prosecute the application identified above ewith.	e, and to tra	ınsact all business i	n the United States Patent and	
Please change the corresponden	ce address for the above-identified applicati	ion to:			
The above-mentioned Cus	tomer Number.				
OR ·					
Practitioners at Customer N	Number. 22920			Place Customer Number Bar Code Label here	
OR			L		
Firm or Individual Name	Gregory C. Smith				
Address	Garvey, Smith, Nehrbass & Doody	/, L.L.C.			
Address	3838 N. Causeway Blvd., Suite 32				
City	Metairie	State	LA	Zip 70002	
	USA	···			
Telephone	(504) 835-2000	Fax	(504) 835-207	0	
l am the:					
Applicant/Inventor.					
	e entire interest. See 37 CFR 3.71. R 3.73(b) is enclosed. (Form PTO/SB/96).				
	SIGNATURE of Applicant or A	Assignee of	Record		
Name BHABENDR	A K. PRADHAN				
Signature Bhabeah	me k. Fraker				
Date 07/23/03	L		Telephone	770 792 9460	
NOTE: Signatures of all the inventors forms if more than one signature is rec	or assignees of record of the entire interest or thei quired, see below*.	ir representati	ive(s) are required. Su	bmit multiple	
*Total of _1 fo	rms are submitted.				

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



STATEMENT UND	DER 37 CFR 3.73(b)
Applicant/Patent Owner: Columbian Chemicals Co.	
	Filed/Issue Date:
Entitled: "Improved Catalyst and Process to Produce Nan	ocarbon Materials in High Yield and at High Selectivity at
	ation,
(Name of Assignee) (Type of A	Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:	
1. the assignee of the entire right, title, and interes	t; or
2. an assignee of less than the entire right, title are The extent (by, percentage) of its ownership int	d interest. erest is%
in the patent application/patent identified above by virt	ue of either:
	at application/patent identified above. The assignment rademark Office at Reel, Frame, or for
OR	
B. [] A chain of title from the inventor(s), of the pater assignee as shown below:	nt application/patent identified above, to the current
1. From:	_To:
	, or for which a copy thereof is attached.
2. From:	_To:
	, or for which a copy thereof is attached.
3. From:	To.
Reel, Flaille	States Patent and Trademark Office at, or for which a copy thereof is attached.
[] Additional documents in the chain of title a	States Patent and Trademark Office at, or for which a copy thereof is attached.
[] Additional documents in the chain of title a [] Copies of assignments or other documents in the c [NOTE: A separate copy (i.e., the original assignments)	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be
[] Additional documents in the chain of title at [] Copies of assignments or other documents in the carrier [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in accordance of the USPTO. See MPEP	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be 302.08] orized to act on behalf of the assignee.
[] Additional documents in the chain of title at [] Copies of assignments or other documents in the control [NOTE: A separate copy (i.e., the original assignment by the submitted to Assignment Division in accordance recorded in the records of the USPTO. See MPEP The undersigned (whose title is supplied below) is authorized.	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be 302.08] orized to act on behalf of the assignee.
[] Additional documents in the chain of title a [] Copies of assignments or other documents in the c [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in according	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be 302.08] orized to act on behalf of the assignee.
[] Additional documents in the chain of title at [] Copies of assignments or other documents in the control [NOTE: A separate copy (i.e., the original assignment by the submitted to Assignment Division in accordance recorded in the records of the USPTO. See MPEP The undersigned (whose title is supplied below) is authorized.	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be 302.08] orized to act on behalf of the assignee.
[] Additional documents in the chain of title at [] Copies of assignments or other documents in the composition [NOTE: A separate copy (i.e., the original assignments be submitted to Assignment Division in accordance recorded in the records of the USPTO. See MPEP The undersigned (whose title is supplied below) is authorized.	States Patent and Trademark Office at, or for which a copy thereof is attached. are listed on a supplemental sheet. hain of title are attached. ent document or a true copy of the original document) dance with 37 CFR Part 3, if the assignment is to be 302.08]

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

ASSIGNMENT

WHEREAS, I, Bhabendra Pradhan, am the sole inventor of a ""Improved Catalyst and Process to Produce Nanocarbon Materials in High Yield and at High Selectivity at Reduced Reaction Temperatures", an application for United States Letters Patent for which is being filed herewith; and

WHEREAS, Columbian Chemicals Company (hereinafter "ASSIGNEE"), a corporation created and existing under and by virtue of the laws of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to me in hand paid by ASSIGNEE and for other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby sell, assign, transfer and set over to ASSIGNEE all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, continuations-in-part, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by ASSIGNEE for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said

application and from any and all divisions, continuations, continuations-in-part, and reissues thereof, to ASSIGNEE as assignee of my entire interest, and hereby covenant that I have the full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

And I further hereby covenant and agree that I will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to ASSIGNEE, its successors, assigns, or other legal representatives and that if ASSIGNEE, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional, continuation, or continuation-in-part application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And I do further covenant and agree that I will, at any time upon request, communicate to ASSIGNEE, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to me, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 23 day of July, 2003.

Bhabendra Pradhan

P:\Greg\15630.141.asg.wpd